KOLUPAYEVA, D.I.; LAVROVSKIY, K.P.: ROZENTAL', A.L.

Dehydrogenation of mixtures of isopentane with isopentenes on a chromia-alumina catalyst. Neftekhimila 3 no.6:853-858 N-D 163. (MIRA 17:3)

1. Institut neftekhimicheskogo sinteza AN SSSR im. A.V. Topchiyeva.

L 10701-63 EPR/ENP(1)/EPF(c)/EPF(Ps-4/Pc-4/Pr-4/Pr-4-EM/PM/MM/AN ACCESSION NR: AP3002019	S/0195/63/004/003	1/0337/0347
AUTHOR: Brodskiy, A. M.; Lavrovskiy, K. P.	; Titov, V. B.	84
TITLE: Radiation transformation rate of h	drocarbons as a function of	emperature
SOURCE: Kinetika i kataliz, v. 4, no. 3,	1963 , 337-347	
TOPIC TAGS: radiation decomposition, liquing, muclear reactor, hydrocarbon radiolys	id hydrocarbon, radiation-the 1s	rmal crack-
ABSTRACT: Authors examine the rate of radbons as a function of temperature. Detail radiation-thermal cracking of a mixture of distilled gas oil in a nuclear reactor is determine basic characteristics of a chang of the hydrocarbons with a rise in tempera practical interest at the present time. If for his help in this study. Orig. art. htables.	petroleum hydrocarbons - dir shown. These data made it po e in the rate and direction o ture, which are of a theoreti	ectly ssible to f radiolysis cal and Kh. Eglit
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BRODSKIY, A.M.; LAVROVSKIY, K.P.

On the temperature limit for the effect of radiation on the rate of chemical transformations. Kin. i kat. 4 no.4:652-653 J1-Ag (MIRA 16:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.

36732-65 EWG(j)/EWT(1)/EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EWG(m)/EPR/EWP(j) T/SWP(t)/EWP(h)/EWA(h)/EWA(1) Pc-4/Pr-4/Ps-4/Peb/Pu-4 DJ/GS/RM s/0000/64/000/000/0016/0030 ACCESSION NR: AT5007896 AUTHOR: Aleksenko, Yu. N.; Brodskiy, A. M.; Layrovskiy, K. P.; Khramchenkov TITLE: Investigation of organic heat-transfer agents and moderators based on completely hydrogenated terphenyls (SOURCE: Moscow. Institut atomnoy energii. Issledovaniya po primeneniyu organicheskikh teplonositeley-zamedliteley v energeticheskikh reaktorakh (Research on the use of organic heat-transfer agents and moderators in power reactors). Moscow, Atomizdat, 1964, 16-30 TOPIC TAGS: organic cooled reactor, power reactor, reactor coolant, thermal reactor, radiation polymerization, heat transfer agent, moderator, hydrogenated terphenyl, biphenyl ABSTRACT: This article presents a method for preparing heat-transfer agents, the results of investigations on their behavior in the process of radiothermal conversions in ampoule tests and in a circulating reactor, as well as the changes in thermophysical and physico-chemical properties of these compounds. The incompletely hydrogenated terphenyls (HTP) were obtained by fractional crystallization of different bottoms at 400 - 420C, from which 6% biphenyl, 8 - 10% orthoterphenyl, 24% metaterphenyl and 24% paraterphenyl were obtained. Investigations of the

L 36732-65 ACCESSION NR: AT5007896

radiothermal stability of HTP were carried out in three directions: 1) investigations of the thermal stability in the absence of radiation; 2) investigations of radiation stability at different temperatures under conditions of ampoule irradiation; 3) investigations of radiothermal stability under working conditions for a loop experiment on a reactor. These tests were conducted in stainless-steel ampoules in an atmosphere of technical nitrogen and lasted for 200 hrs. Measurements were also made of the content of the high-boiling product, kinematic viscosity of the specimen, and the molecular weight of the high-boiling product. The authors show that radiolysis of HTP at 350 - 380C leads to the formation of gaseous, high-boiling and low-boiling products. In addition, the composition of the products forming during radiolysis at 350 - 370C indicates flow in the latter along with the reactions of condensation, dehydrogenation and cracking. It is also pointed out that there was no formation or precipitation in the form of particles or films of any insoluble products. Orig. art. has: 4 tables and 17 figures.

ASSOCIATION: Institut atomnoy energii, Moscow (Institut of Atomic Energy)

SURMITTED: 01Aug64

ENCL: 00

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EWG(j)/EWT(1)/EPA(s)-2/EST(m)/EPF(c)/EPF(n)-2/EWG(m)/EPR/EWP(j)/ T/EWP(t)/EMP(b)/EWA(h)/EWA(l) Pc-h/Pr-h/Ps-h/Peb/Pp-h DJ/GS/RM 5/0000/64/000/000/0031/0046 ACCESSION NR: AT5007897 AUTHOR: Brodskiy, A. M.; Lavrovskiy, K. P.; Zvonov, N. V. TITLE: Investigation of the possibilities of using petroleum gas-oil fractions as heat-transfer agents for nuclear reactors SOURCE: Moscow, Institut atomnoy energii. Issledovaniya po primeneniyu organicheskikh teplonositeley-zamedliteley v energeticheskikh reaktorakh (research on the use of organic heat-transfer agents and moderators in power reactors). Moscow, Atomizdat. 1964, 31-46 TOPIC TAGS: radiation polymerization, organic cooled reactor, reactor coolant, thermal reactor, gas oil, petroleum refining, heat transfer agent, pyrolysis ABSTRACT: The basic results of loop investigations and investigations in ampoules of the radiothermal conversions of a gas-oil fraction are presented. The raw material was a specially prepared gas oil from a non-sulfurous petroleum having a naphthene-aromatic base. In the experiments, both the purely thermal and radiothermal resistance of a gas oil were investigated in stainless-steel ampcules in an atmosphere of technical nitrogen. The results of measurements obtained from the pyrolytic tests show that the gas oil is completely stabl at 200 - 250C. Card 1/2

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ACCESSION NR: AT5007897

300 - 370C, destructive processes set in leading to the formation of low-boiling products. At 420C, a very rapid build-up of high-boiling products is detected. It is shown that with an increase in the total radiation dose the hydrogen concentration decreases and the content of heavier hydrocarbons increases during radiolysis. Considerable attention was given to studying the chemical reactions occurring directly in liquid fractions under the influence of radiation from a nuclear reactor at a total dose of 600 Mrad. The formation of light-boiling radiolysis products was studied as a function of the build-up of fractions boiling at up to 150C and from 150 to 200C. The authors conclude with a discussion of the formation of radiation-induced polymers at 300C. It is shown that the examined gas-oil fraction can be used in nuclear reactors up to 330C. "The authors express their appreciation to A. N. Mezentsey, V. B. Titov, and Yu. L. Fish." Orig. art. has: 8 tables and 13 figures.

ASSOCIATION: Institut atomnoy energii, Moscow (Institute of Atomic Energy)

SUBMITTED: 01Aug64

ENCL: 00

SUB CODE: NP, PP, OC

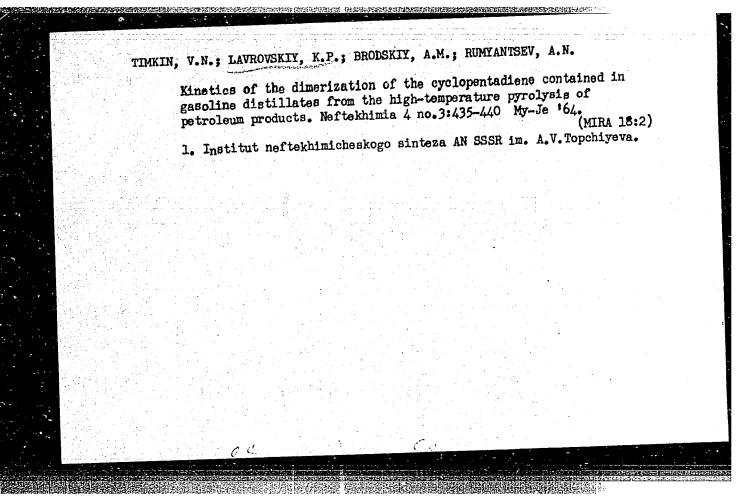
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EPF(c)/EPF(n)-2/EPR/Bac(j)/EPA(s)-2/EMA(h)/EMT(1)/EMT(n)/EMP(j)/EWG(n) EMP(b)/T/EWA(1)/EWP(t) Pc-L/Pr-L/Ps-L/Pu-L/Peb RM/DJ/GS 5/0000/64/000/000/0056/0062 ACCESSION NR: AT5007899 AUTHOR: Brodskiy, A. M.; Lavrovskiy, K. P.; Makarov, D. V.; Fish, Yu. L.; Zvonov, N. V. The regeneration of organic heat-transfer agents by hydrogenation TITLE: SOURCE: Moscow. Institut atomnoy energii. Issledovaniya po primeneniyu organicheskikh teplonositeley-zamedliteley v energeticheskikh reaktorakh (Research on the use of organic heat-transfer agents and moderators in power reactors). Moscow, Atomizdat, 1964, 56-62 TOPIC TACS: organic reactor coolant, thermal reactor, power reactor, radiation polymerization heat transfer agent, coolant regeneration, coolant hydrogenation, catalytic hydrogenation ABSTRACT: The results of model tests on the use of gas-oil and hydroterphenyl as heat-transfer agents are presented. The regeneration of the heat-transfer agents was carried out under conditions of hydrocracking on an Al-Co-Mo catalyst under a hydrogen pressure of 40 - 60 atm. at a temperature of 300 - 3500 in the reactor. The changes in the content of polymers and unsaturated compounds as a function of the dose of absorbed energy were determined during radiolysis of the gas-cil

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ACCESSION NR: AT5007899 fraction. It is shown tha			
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1 36482-65 EPF(c)/EPR/EMP(J)/EWT(m) Po-4/Pr-4/Ps-4 RPL RM/W
ACCESSION NR: AP5010561 UR/0204/64/004/005/0691/0699 33
AUTHOR: Yampol'skiy, Yu. P.; Brodskiy, A. H.; Kalinenko, R. A.; Lavrovskiy, K. P.
TITIE: Transformations of ethylene at high temperatures SCURCE: Neftexhimiya, v. 4, no. 5, 1264, 691-699 TOPIC TAGS: ethylene, high temperature phenomenon, reaction mechanism, chemical
kinetics Abstract: The kinetics and mechanism of the thermal transformations of ethylene Abstract: The kinetics and mechanism of the thermal transformations of ethylene were investigated in a turbulent reactor within the temperature range 800-1100°C were investigated in a turbulent reactor within the temperature range 800-1100°C at a pressure of 100 mm of mercury, i.e. under conditions at which decomposition at a pressure of 100 mm of mercury, i.e. under conditions at which decomposition at a pressure of 100 mm of mercury, i.e. under conditions at which decomposition still take reactions begin to predominate, while the polymerization reaction of the accumula- place at an appreciable rate. Kinetic curves were obtained for the accumula- place at an appreciable rate. Kinetic curves were obtained for the accumula- place at an appreciable rate. Kinetic curves were obtained for the accumula- place at an appreciable rate. Kinetic curves were obtained for the accumula- place at an appreciable rate. Kinetic curves were obtained for the accumula- tion of the basic reaction products: hydrogen, methane, acetylene, isomeric s, benzene, and coke. Ethane, propylene, allene, methylacetylene, isomeric and stryene, were also detected among the reaction products. Butadiene-1,3 and stryene, were also detected among the reaction products. Butadiene-1,3 and stryene, were also detected among the reaction products. Butadiene-1,3 and stryene, were also detected among the reaction from G2Hu, with an activation was found according to a second-order reaction from G2Hu, with an activation energy of 63 ± 5 kcal/mole, and rapidly entered into fruther transformations.
The authors express their gratitude to Q. M. Knipovich for the assistance in
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ACCESSION NR: AP5010561	2	-
identification of vinyl-acetylen spectroscopy. Orig. art. has: 1 f	to N. Ya. Chernyak for the assistance in the eand cyclopentadiene by the method of massigure, 8 formulas, 5 graphs, 4 tables.	
ASSOCIATION: Institut neftekhimi (Institute of Petrochemical Synth		
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L 51813-65 EWT(m)/EFF(c)/EWP(j)/T Pc-L/Pr-L WE/RM

ACCESSION NR: AP5017012

UR/0204/64/004/006/0880/0887

AUTHOR: Brodskiy, A.M.; Lavrovskiy, K. P.; Rumyantsev, A. N.; Timkin, V. N.; Fish, Yu. L.

TITLE: Production of higher alpha-olefins by the method of high-speed contact cracking of paraffinic petroleum products

SOURCE: Neftekhimiya, v. 4, no. 6, 1964, 880-887

TOPIC TAGS: petroleum refining, petroleum refinery product, paraffin wax

ABSTRACT: The high-speed contact cracking of soft wax and other paraffinic petroleum products was investigated on semiindustrial and pilot-plant installations. The primary decomposition products were found to be applied olefins (pentene-1, hexene-1, heptene-1, octene-1, nonene-1, and decompose is olated by fractional distillation of the alpha-olefin fraction.)

The olefin content in the fraction of high-speed cracking of soft wax boiling below 150° was 70-75%. The products of high-speed cracking of solid wax and paraffinic crude, boiling within the range 200-350°, contained up to 85% unsaturated compounds, chiefly alpha-olefins. In a study of high-speed cracking of soft wax on the semiindustrial installation of the Moscow Neftegaz Plant, the necessary indices of the process were determined. The high concentration of alpha-olefins in the products of high-cord.

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speed cracking permit the isoluths individual alpha olefins by formulas, 1 graph, 6 tables. ASSOCIATION: Institut neftek	nimicheskogo sinteza im. A.		
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	L 24212-65 EWT(m)/EPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Pu-4 DM V ACCESSION NR: AP5001265 S/0089/64/017/006/0439/0448
	I Vo Pelens P. A. : Zyonov, N. V.
	AUTHOR: Polushkin, K. K.; Yemel'yanov, I. Ya.; Delens, P. A.; Zvonov, N.V.; Aleksenko, Yu. I.; Grozdov, I. I.; Kuznetsov, S. P.; Sirotkin, A. P.; Tokarev, Yu. I.; Lavrovskiy, K. P.; Brodskiy, A. M.; Belov, A. R.; Borisyuk, Ye. V.; Yu. I.; Lavrovskiy, K. P.; Brodskiy, A. M.; Servakin, Yu. I.; Filippov,
	Gryazev, V. M.; Tetyukov, V. D.; Pohov, D.; Savinov, N. P.; Meshcheryakov, A. G.; Petrochuk, K. V.; Khoroshavin, V. D.; Savinov, N. P.; Meshcheryakov, M. N.; Pushkarev, V. P.; Suroyegin, V. A.; Gayrilov, P. A.; Podlazov, L. N.;
	Rogozhkin, I, N. TITLE: Atomic electric power installation "Arbus" with organic coolant and
	moderator
	SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 439-448
	TOPIC TAGS: small nuclear reactor, organic coclant, organic moderator, react- or economy, nuclear reactor
	ABSTRACT: The paper is a summary of the SSSR # 307 report at the Third Inter-
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AUTHOR: Brodskiy, A. M., Lavrovskiy, K. P. (Corresponding member All Titov, V.B.; Egilt, A. Kh.

TITLE: Radiation-thermal conversion of normal alkanes in liquid phase

SOURCE: AN SSSR. Doklady, v. 159, no. 6, 1964, 1319-1222

TOPIC TAGS: normal alkane, thermal radiolysis, radiation thermal conversion, material balance, normal tetratriacontane, ion reaction, ion radical reaction

ABSTRACT: The radiation-thermal conversion of n-tetratriacontane was studied with the tests run in the channel of a water-water type nuclear reactor at the state of the stat from 150-380 C at integral doses of 6 x 1021 ev/gm. The amount of hydro-

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though their mol	cular weight decreased w	th temperature incr	ease; a greater
	groups was present in the		
meric products	10-20% of the polymers fo	rmed was based on u	msaturate : '

ASSOCIATION: Institut neftekhimicheskogo sinteza im. A. V. Topchiyeva (Institute of Petrochemical Synthesis)

SUBMITTED: 09Jul64 ENCL: 00 SUB CODE: OC, GC
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Card 2/2

I. 85(8-6A) ENT(m)/ENP(j)/T RPL WW/WE/RM SOURCE CODE: UR/0286/65/000/020/0066/0066 AUTH(RS: Sirota, A. G.; Ryabikov, Ye. P.; Chopko, L. F.; Lavroyskiy, K. P.; Brodikiy, A. M.; Rumyantsev, A. H.; Il chenko, P. A.; Gol'denberg, A. L. Gul St.
ACC BR: Al Joseph Roy Te. P.; Chopko, L. F.; Lavroyekiy, Kenter
AUTHORS: Sirots, A. W.; Il chenko, P. A.; Gol water
Brodikiy, A. M. M. Mulds
ORG: none
ORG: none ORG: No. 175658 TITLE: A method for obtaining ethylene copolymers. Class 39, No. 175658
SOULCE: Byulleten 220 athylene, olefin, chromium compound, catalyst,
SOUICE: Byulleten' izobretenly I toward Source: Byulleten' izobretenly I toward for obtaining ethylene copolymer; catalyst, population, paraffin, cracking, petroleum copolymerization, petroleum copolymerization copolymer
copolymerization, records a method for obtaining ethylene
copolymerization, parallin, tracking expensions a method for obtaining ethylene ABSTRACT: This Author Certificate presents a method for obtaining compound at copolymers by copolymerizing ethylene with an α-olefin-containing compound catalyst. copolymers by copolymerizing ethylene with an α-olefin-containing compound contact 60-130C and at a pressure of 30-40 atm in the presence of acid chromium catalyst.
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copolymers by copolymerizing ethylene with copolymers by copolymers by copolymerizing ethylene with the presence of acid chromium cataly copolymerization, benzine distillate of rapid contact to simplify the technique of copolymerization, benzine distillate of rapid contact to simplify the technique of copolymerization, benzine distillate of rapid compounds. Cracking of patroleum paraffine is used as the d-olefin-containing compounds.
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SUB CODE: 7/ SUBM DATE: 07Feb63
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L 62082-65 EPF(c) EPR(n)-2/EMG(j)/EMA(h)/EMP(j)/EMT(m)/EMA(1) Pc-h/Pr-h/Pu-h/Peb ACCESSION NR: AP5 116839 GG/RM UR/0204/65/005/003/0351/0362 ACCESSION NR: AP5 116839 GG/RM 547.21-14:541.15:542.92 AUTHORS: Brodskiy, A. M.; Lavrovskiy, K. P.; Tutov, V. B.; Eglit, A. Kh. TITLE: On the meclanism of radiation-thermal transformations of n.alkanes in liquid chase SOURCE: Neftekhimiya, v. 5, no. 3, 1965, 351-362 TOPIC TAGS: alkane, radiolysis, liquid phase, temperature relationship ABSTRACT: The temperature relation of the radiation-thermal destruction of liquid hydrocarbons (normal paraffin C34H70) in the mixed nuclear radiation field was studied in the temperature interval 150-4000 in an effort to obtain more specific evaluations of hydrocarbon radiolytic decomposition and to evaluate the radical concentrations. At 150 and 2500 the quantities of the liquid radiolysis products were too small for the yield determination; their content of gases and vapor at various temperatures is tabulated. The yields of different products at temperatures of 315, 260, and 3800 with respect to the number of C atoms in the molecule are presented graphically. Proceeding from the balance equation for the quasi-stationary concentrations of iso- and normal radicals inside and outside a wet cell, the equations Cord 1/2

L 62082-65 ACCESSION NR: AP5016839 for the yield of lower saturated and unsaturate' hydrocarbons are derived. They show that the strong temperature dependence of both hydrocarbon types was determined by the isoradical decomposition outside the wet cell and was proportional to the constant of the reaction velocity of isoradical destruction (both processes had equal activation energies). These equations were used also for the evaluation of the pre-exponential factor of the reactions of alkyl radical decomposition in fluid. The syaluation of different radical concentrations in and outside the cell showed that the destruction of the C-C bonds prevailed during the primary radiation effect with a simultaneous formation of primary (normal) radicals in the cell, while the hydrocarbon radicals outside the cell consisted of secondary radicals formed from the normal ones through the replacement reactions. Orig. art. has: 3 tables, 4 figures, and 6 formulas. ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR im. A. V. Topchiyeva

(Institute of Petrochemical Synthesis, AN SSSR)

SUBMITTED: 17Jul64

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OTHER: 008

SHEVEL'KOVA, L.V.; BRODSKIY, A.M.; KALINENKO, R.A.; LAVROVSKIY, K.P.

Mechanism underlying the formation of secondary products in the high-temperature cracking of ethane. Dokl. AN SSSR 160 no.2: 409-412 Ja '65. (AIRA 18:2)

1. Institut neftekhimicheskogo sirteza im. A.V. Topchiyeva AN SSSR. 2. Chlen-korrespondent AN SSSR (for Lavrovskiy).

SHEVEL FROVA, L.V.; BRODSKIT, A.M.; KALINENKO, R.A.; LAVROVSKIT, K.P.

Mechanism of the formation of some secondary products in the high-temperature cracking of ethane, kin, i kat. 6 no.4:592-600 Ji-Ag 165. (MIRA 18:9)

1. Institut neftekhimicheskogo sinteza imeni A.V.Topchiyeva AN SSSR.

ACCESSION 1 R: AP5020833	/EWP(j)/EWA(c) RPL WW/RM 5/ UR/0020/65/163/004/0920/0923 482
	$oldsymbol{eta}$, which is the state of $oldsymbol{\mathcal{L}}$. The $oldsymbol{\mathcal{L}}$
AUTHOR: Bradskiy, A. M.;	Kalinenko, R. A.; Shevel'kova, L. V.; Yampol'ski
Yu. P.; Lavrevskiy, K. P. of TITLE: Mechinisms of the of	conversions of ethylene and acetylene during hydro-
carbon pyrolysis	y, v. 163, no. 4, 1965, 920-923
TOPIC TAGS: pyrolysis, ac state, hydrocarbon	etylene, ethylene, temperature conversion, excited
ABSTRACT: An explanation under ethylene pyrolysis con	of the course and mechanism of acetylene conversion ditions was sought in this study of pyrolysis in the
version was determined from	es of ethylene and tagged acetylene. Acetylene con- n the distribution of radioactivity in the pyrolysis
was formed from acetylene,	peratures none of the pyrolysis products except coke and formation of coke and methane was minimum at ylene in the formation of other gaseous products
increased with temperature.	The energy of activation is about 10 kcal/mol. It was formed equally by reactions involving no acetyle

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ACCESSION N	R; AP5020833			3
Traces of cycl and apparently little acetylene lower tempera 1000 C the col- hydrocarbons these reaction decomposed m	lohexane formed by it is intermediate was used to formature was primarily was formed as having low specifies is about 80 kcal nuch faster than accordance with the	e in the formation of a methane and divinyly formed directly from a result of the converte radioactivity. The /mol. The acetylene cetylene formed during a formation of the exception of the exce	ion products took part. ed at elevated temperat untagged benzene. Very l. The coke deposited at om the acetylene. At 95 esion of ethylene and oth energy of activation for added initially to the eta ing the course of pyrolys ited triplet state in acetylene, 11 equations, and	the 60- er hylene is.
but needs fur	I- Institut neftekhi	micheskogo sinteza i	m. A. V. Topchiyeva A	
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L 01238-67 EW. (m) JR ACC NR: AT6031142 SOURCE CODE: UR/3136/66/000/066/0001/0024 AUTHOR: Aleksenko, Yu. N.; Brodskiy, A. M.; Zabelin, A. I.; Kevrolev, V. P. Lavrovskiy, K. P.; Makarov, D. V.; Tetyukov, V. D.; Fish, Yu. L. B+ [ORG: none TITLE: Analysis of tests of a unit for the atomic power station "Arbus" regenerating a gas oil coolant by degeneration hydrogenation SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-1066, 1966. Analiz ispytaniy ustanovki destruktivno-gidrogenizatsionnoy regeneratsii gazoylevogo teplonositelya AES Arbus, 1-24 TOPIC TAGS: organic moderated reactor, organic coolant, atomic energy, atomic power station, organic cooled nuclear reactor, catalyst, catalyst regeneration/Arbus-I atomic power station ABSTRACT: An analysis is made of data obtained in the experimental operation of the "Arbus-I" atomic power station and related laboratory studies. The "Arbus-I" differs from other atomic power stations using organic-cooled and-organic-moderated reactors in that its gas oil coolant is regenerated by means of a hydrogenation-Card 1/2

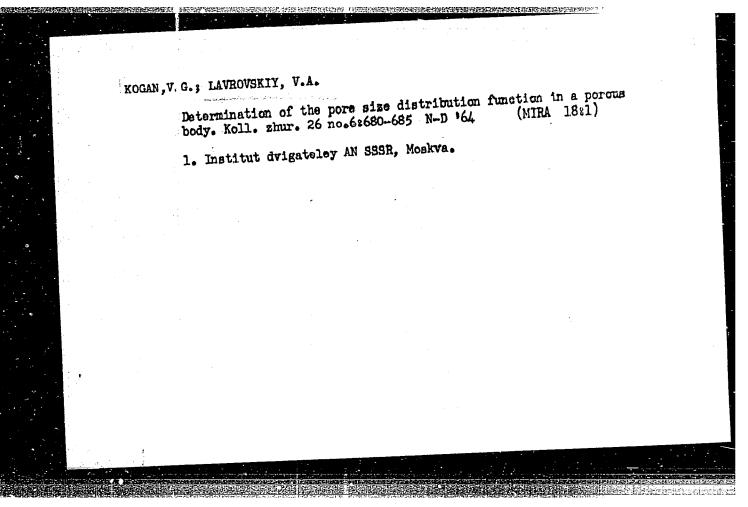
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degradation process. The generation-degradation con The principal parameters and the useful life of the aling parameters is determined.	nsiderably decreases re for the regeneration of luminocobalt molybdenu	hydrostabilized g im gatalyst under	gas oils are adopted ope	give
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ROTENBUR:, Iosif Solomonovich, kand. tekhn. nauk, dots.; POLYAKOV, Mikhail Pavlovich, kand. tekhn. nauk, dots.; ZOLOTAREV, Nikolay Vasil'yevich, kand. tekhn. nauk, dots.; LAVROVSKIY, Vadim Aleksandrovich, inz. DADENKOV, Yu.N., doktor tekhn. nauk, prof., retsenzent; BEGAM, L.G., kand. tekhn. nauk, retsenzent; BORODINA, N.N., red.

[Designing bridge crossings over large streams] Proektirovanie mostovykh perekhodov cherez bol'shie vodotoki. Moskva, Vysshaia shkola, 1965. 335 p. (MIRA 18:6)

1. Chlen-korrespondent AN Ukr.SSR (for Dadenkov). 2. Ruko-voditel' laboratorii mostovoy gidravliki i gidrologii TSental'nogo nauchno-issledovatel'skogo instituta svyazi (for Begam).



"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928830007-4

KOGAN, V.G.; LAVROVSKIY, V.A.

Capillary model of highly disperse and porous bodies as applied to filtration phenomena. Koll.zhur. 27 no.3:383-387 My-Je 165. (MTRA 18:12)

1. Institut radiotekhniki i elektroniki AN SSSR, Moskva. Submitted July 22, 1963.

30(6)

AUTHOR:

Lavrovskiy, V. M., Doctor of Historical

SOV/30-59-1-21/57

Sciences

TITLE:

Meeting of Historians From the USSR and England (Vstrecha isto-

rikov SSSR i Anglii)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 1, pp 105 - 106 (USSR)

ABSTRACT:

In September 1958, a delegation of Soviet historians visited England. Ye. A. Kosminskiy, B. A. Rybakov, V. M. Khvostov, A. V. Artsikhovskiy, V. G. Trukhanowskiy and the author of this article were taking part under the direction of A. A. Gruber, President of the Natsional'nyy komitet sovetskikh istorikov (National Committee of Soviet Historians). The object of this visit was to come to know scientific institutions in England, and to hold a joint scientific conference. 6 reports were given on both sides, i. e. one report on each basic subject by a Soviet and an English expert. A. V. Artsikhovskiy reported on recent Soviet work in the field of archeology. The report by M. N. Tikhomirov, who was absent due to illness, was dedicated to the origin of Christianity in Russia. B. A. Rybakov reported on the character of Russian feudalism in the

Card 1/3

Meeting of Historians From the USSR and England

SOV/30-59-1-21/57

early Middle Ages. Each of these subjects was described in English history by an English historian, which caused occasional violent discussions. V. M. Lavrovskiy reported on English peasantry on the eve of the middle-class revolution in the 40's of the 17th century, and immediately after. This subject disclosed opposite opinions on various questions. V. M. Khvostov reported on Russian and English politics concerning the unification of Germany (in the years 1848 -71). The question of sources, methods and plans for the mode of writing the history of World War II was regarded in reports by V. G. Trukhanovskiy, Ch. Webster, A. Frankland. Here principal contrasts became evident in the treatment of this subject by English and Soviet historians. Finally, the author states the great interest of English historians in the work of Soviet historians in the field of English history, particularly in the activity of the Gruppa po istorii Anglii (Group for the History of England) at the Institut istorii Akademii nauk SSSR (Institute of History, Academy of Sciences, USSR), in dissertations defended in the Soviet Union, etc. They are

Card 2/3

Weeting of Historians From the USSR and England SOV/30-59-1-21/57 willing to support an exchange of archives material, and the publication of articles by Soviet Scholars in British periodicals.

Card 3/3

DUDNIK, D.M., inzh.; LAVROVSKIY, Yu.A., inzh.; LOMBARDICH, N.N., inzh.

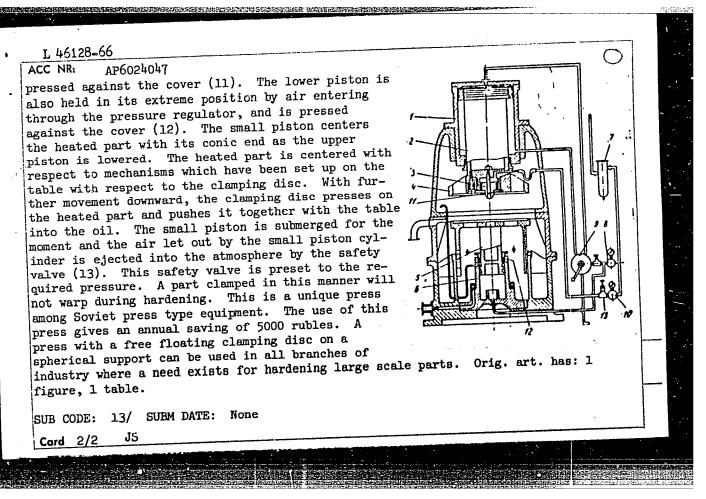
Reducing the flammability of "Stiropor." Trudy OTIPiKhP 12:129-138
(MIRA 17:1)

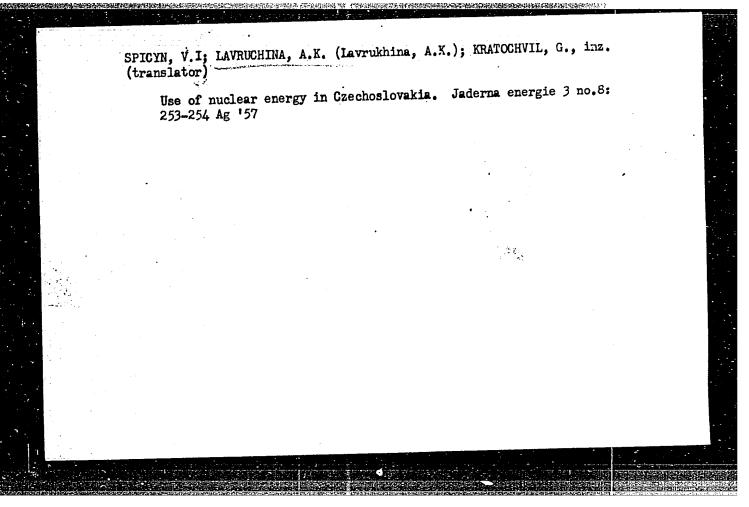
1. Nauchno-issledovatel'skaya laboratoriya po kholodil'noy tekhnike Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti.

E 46128-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) IJP(c) JD/DACC NR: AP6024047 SOURCE CODE: UR/0193/66/000/003/0018/0019 AUTHOR: Lavrskiy, N. I. ORG: None TITLE: A press for force hardening large parts SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 3, 1966, 18-19 TOPIC TAGS: hardening, metal press pneumatic device ABSTRACT: The author describes a press for force hardening large parts (see figure) This press consists of the frame, upper cylinder (1), upper piston (2), smallypiston (3), clemping ring 14), table, lower piston (5) and lower cylinder (6). Oill water (3), clemping ring 14), table, lower piston (5) and lower cylinder (6). Oill water (3), the frame is conand other neutral fluids are used as hardening media. The base of the frame is conand other neutral fluids are used as hardening media. The base of the frame is conand other neutral fluids are used as hardening media. The base of the frame is conand other neutral fluids are used as hardening media. The base of the frame is conand other neutral fluids are used as hardening media. The base of the frame is conand other neutral fluids are used as hardening media. The base of the frame is conand other neutral fluids are used as hardening media. The base of the frame is conand other neutral fluids are used as hardening media. The base of the frame is conand other neutral fluids are used as hardening media.	
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This press consists to lower piston (5) and rower set the frame is con-	
This please ring (h), table, lower piston () The base of the frame is con-	
1/2) clambilik 1-45 '/3 - 1-40ning mediki -450	
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(3), clamping ring 4), table, lower parameters. The base of the real unit. and other neutral fluids are used as hardening media. The base of the real unit. The oil tank contains a refrigerating unit. The oil tank to the oil tank by pipelines. The oil tank contains a refrigerating unit. The oil tank by pipelines. The oil tank by the lower branch pipelines.	-
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The press is supplied with compressed all and the distributor valve (9). The distributor valve (9). The small pist goes through the pressure regulator (8) and the distributor valve is used by the operator for controlling the upper piston. The small pist tor valve is used by the operator for controlling. The air acting on the small piston is	on
tor valve is used by the operator for control The air acting on the small pie	
goes through the pressure regulator (0) and the upper piston. The small pist tor valve is used by the operator for controlling the upper piston. The small pist is always under pressure at its extreme position. The air acting on the small piston is is supplied by the pressure regulator (10). In this position, the small piston is	-
is supplied by the pressure regulator (10).	
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APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928830007-4"

LAVRUK, B. [Lawruk, B.]

Parametric boundary value problems for elliptic systems of linear differential equations. Pts. 1-2. Bul Ac Pol mat 11 no.5:257-278 '63.

1. Katedra Analizy Matematycznej, Universytet, Warszawa. Presented by S. Mazur.

S/044/62/000/011/020/064 A060/A000

AUTHOR:

Lavruk, B.

TITLE:

On a boundary problem for two second-order linear systems of the el-

liptic type

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 11, 1962, 47, abstract 11B200 (2ème congr. math. hongrois, Budapest, 1960. Budapest, 1961, 111a/

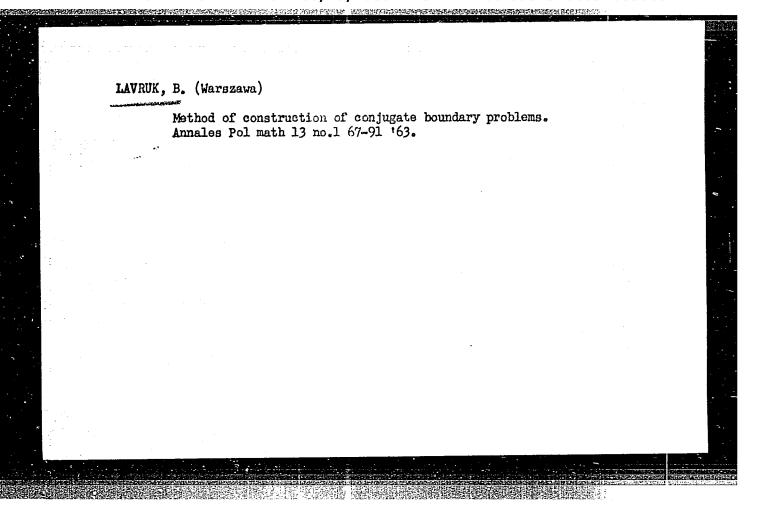
/93 - 97)

TEXT: An example is cited of applying the author's results (RZhMat, 1959, 1535; 1960, 7690, 4050) to the calculation of the index of boundary problems of the form considered in those papers for a system of A.V. Bitsadze and for a system of Laplace equations.

V.K. Zakharov

[Abstracter's note: Complete translation]

Card 1/1



LAVRUK, B. R.: "One type of limit problem for elliptic systems of linear second-order differential equations." Min Higher Education Ukrainian SSR. L'vov State U imeni Ivan Franko.

L'vov, 1956
(Dissertation for the Degree in Physicomathematical in Sciences).

SO: Knishaya Hetopis', No. 23, 1956

LAVRUK, B.A

SUBJECT

USSR/MATHEMATICS/Differential equations

CARD 1/3

AUTHOR TITLE

LAVRUK B.R. Condition for the solvability of a boundary value problem for elliptic systems of linear differential equations of second

PERIODICAL

Doklady Akad. Nauk 111, 23-25 (1956)

reviewed 5/1957

Let

$$A(x,\frac{\partial}{\partial x}) = \sum_{i=1}^{n} A_{i,j}(x) \frac{\partial^{2}}{\partial x_{i} \partial x_{j}} + \sum_{i=1}^{n} A_{i}(x) \frac{\partial}{\partial x_{i}} + A(x)$$

be a differential operator being elliptic in D, where the coefficients A A and A are quadratic matrices being differentiable t+3 times, resp. t+2 times, resp. t+1 times (t \geqslant 1). Let the convex domain V with the (t+2)-times smooth boundary S lie in D. Let

$$B(y, \frac{\partial}{\partial x}) = \sum_{i=1}^{n} B_{i}(y) \frac{\partial}{\partial x_{i}} + B(y)$$

be a differential operator the coefficients B and B of which are quadratic

Doklady Akad. Nauk 111, 23-25 (1956)

CARD 2/3

PG - 767

matrices of p-th order being continuously differentiable t+1 times resp. t times along S.

Let det
$$\sum_{i=1}^{n} B_i(y) v_i(y) \neq 0$$
 if $y \in S$ and $\gamma(y) = (v_1(y), ..., v_n(y))$ is the

unit vector of the inner normal to S in y. The author considers the boundary value problem

(1)
$$A(x, \frac{\partial}{\partial x}) u(x) = 0 \qquad (x \in V)$$

(2)
$$\lim_{x \to y} B(y, \frac{\partial}{\partial x}) u(x) = f(y) \quad (y \in S)$$

and seeks for a solution u(x) of (1) being continuous in VUS and two times differentiable in V, which satisfies (2) and for which there exists a

$$\lim_{x \to y} \sum_{i=1}^{n} B_{i}(y) \frac{\partial u(x)}{\partial x_{i}}$$

being uniform with respect to $y \in S$ if $x \in V$ along y (y) tends to the point y.

Doklady Akad. Nauk 111, 23-25 (1956)

CARD 3/3

PG - 767

Here f(y) is a given row continuous on S. The consideration joins earlier investigations of the author and of Lopatinski (Doklady Akad. Nauk Ukr. SSR No.1-3 (1956)). By a formula of Green's type the manifold of the solutions of an auxiliary equation is mapped linearly and biuniquely onto the solutions V(x) of a similar boundary value problem which was treated by the author in an earlier paper. Herefrom a condition for the solvability of the given boundary value problem is derived. If this condition is satisfied and if f(y) is (t-1)-times continuously differentiable along S, where its derivatives on S satisfy the Hölder contheir t-th derivatives satisfy the Hölder condition on S.

INSTITUTION: University, Ljvov.

AVKUK, B.R.

MBJECT

USSR/MATHEMATICS/Functional analysis

CARD 1/3 PG ~ 799

AUTHOR TITLE

LAVRUK B.R.

On the index of an operator of the boundary value problem for elliptic systems of linear differential equations of second

PERIODICAL

Doklady Akad. Nauk 111, 287-290 (1956)

reviewed 5/1957

Let

$$A(x, \frac{\partial}{\partial x}) = \sum_{i,j=1}^{n} A_{ij}(x) \frac{\partial^{2}}{\partial x_{i} \partial x_{j}} + \sum_{i=1}^{n} A_{i}(x) \frac{\partial}{\partial x_{i}} + A(x)$$

be an elliptic operator the coefficients of which are quadratic matrices of p-th order which are continuously differentiable in $D(x_1...x_n)$ (t+3)times, (t+2) times and (t+1) times, respectively. Let

$$B(\lambda, \frac{9x}{9}) = \sum_{i=1}^{n} B^{i}(\lambda) \frac{9x^{i}}{9x^{i}} + B(\lambda)$$

be a differential operator the coefficients of which also are quadratic matrices of p-th order which along the t+2 times smooth boundary S of a convex domain VCD are continuously differentiable (t+1)times and t times,

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Doklady Akad. Nauk 111, 287-290 (1956)

CARD 2/3

PG - 799

det $\sum_{i=1}^{n} B_i(y) \dot{\gamma}_i(y) \neq 0$ (y \in S), $\dot{\gamma}(y) = (\dot{\gamma}_1(y), \dots, \dot{\gamma}_n(y))$ -unit vector of the inner normal of S. Let

$$\sum_{i=1}^{n} B_{i}(y) v_{i}(y) = \sum_{i,j=1}^{n} A_{ij}(y) v_{i}(y) V_{j}(y).$$

The author considers the operator $(A(x, \frac{\partial}{\partial x}), B(y, \frac{\partial}{\partial x}))$ and applies it to p-rowed matrices u(x) which are continuous in V S, two times continuously differentiable in V and for which there exists

$$\lim_{x \to y} \sum_{i=1}^{n} B_{i}(y) \frac{\partial u(x)}{\partial x_{i}}$$

 $(x \in V, y \in S, x \to y \text{ on the normal } v(y))$. Besides the adjoint operator $(A*(x, \frac{\partial}{\partial x}), B(y, \frac{\partial}{\partial x}))$ is considered (Doklady Akad.Nauk Ukr.SSR 3, (1956)). The difference between the number of linearly independent solutions of

Doklady Akad. Nauk 111, 287-290 (1956)

CARD 3/3

PG - 799

$$A(x, \frac{3x}{9})n(x) = 0 \qquad (x \in A)$$

$$\lim_{x \to y} B(y, \frac{\partial}{\partial x}) u(x) = 0 \qquad (y \in S)$$

and the number of linearly independent solutions of

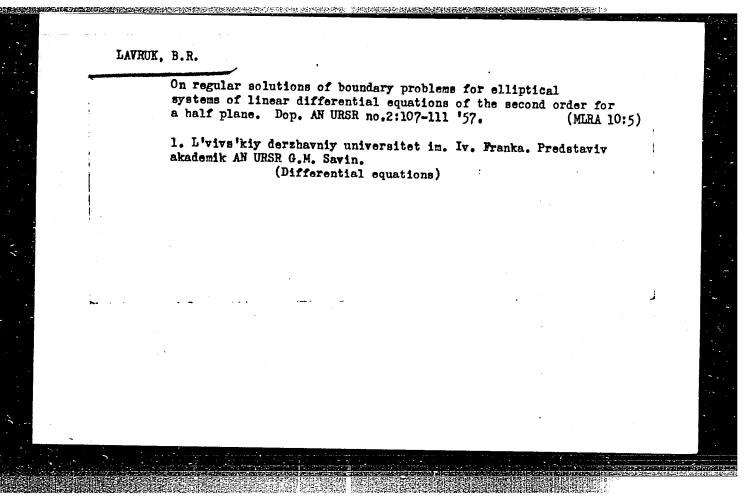
$$A*(x, \frac{\partial x}{\partial x})v(x) = 0 \qquad (x \in V)$$

$$\lim_{x \to y} B^*(y, \frac{\partial}{\partial x}) v(x) = 0 \qquad (y \in S)$$

is denoted as the index of $(A(x, \frac{\partial}{\partial x}), B(y, \frac{\partial}{\partial x}))$. The author proves that the index does not depend on the coefficients $A_{\underline{i}}(x)$ (i=1,...,n), A(x) and

The proof bases on an assertion of existence and uniqueness for a matrix $\Gamma(x,z)$ which has all properties of a normal fundamental matrix.

INSTITUTION: Franko University, Ljvov.



AUTHOR:

Lavruk, B.R.

SOV/20-121-6-4/45

TITLE:

On the Dependence on the Highest Coefficients of the Index of the Operator of a Boundary Value Problem for an Elliptic System of Second Order Linear Differential Equations (O zavisimosti indeksa odnogo operatora granichnoy zadachi dlya ellipticheskoy sistemy lineynykh differentsial'nykh uravneniy vtorogo poryadka ot starshikh koeffitsiyentov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 6,pp 970-972 (USSR)

ABSTRACT:

The present paper is a continuation of [Ref 1]. For the operator $(A(x, \frac{\partial}{\partial x}), B(y, \frac{\partial}{\partial x}))$ introduced there the following theorem is proved: Theorem: The index of $(A(x, \frac{\partial}{\partial x}), B(y, \frac{\partial}{\partial x}))$ does not change for arbitrary variations of the highest coefficient of $A(x, \frac{\partial}{\partial x})$ and $B(y, \frac{\partial}{\partial x})$ if during these variations the following four conditions are satisfied: 1. Condition of ellipticity for $A(x, \frac{3}{2x})$. 2. The $\det \sum_{i=1}^{n} B_{i}(y) \nu_{i}(y) \neq 0, (y \in S), \quad \nu(y) = (\nu_{i}(y), \dots, \nu_{n}(y))$ unit vector of the interior normal of S (S bounds the domain V in

Card 1/2

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THE THE PERSON OF THE PERSON O

On the Dependence of the Highest Coefficients of the Index of the Operator of a Boundary Value Problem for an Elliptic System of Second Order Linear Differential Equations

which the boundary value problem for (A,B) is considered). 3. and 4. The conditions for the reducibility to regular integral equations [Ref 3] of the boundary value problems which correspond to the operators (A,B) and (A*,B*) (for (A*,B*) see [Ref 2]). There are 3 Soviet references.

ASSOCIATION: L'vovskiy gosudarstvennyy universitet imeni Iv. Franko (L'vov State University imeni Iv. Franko)

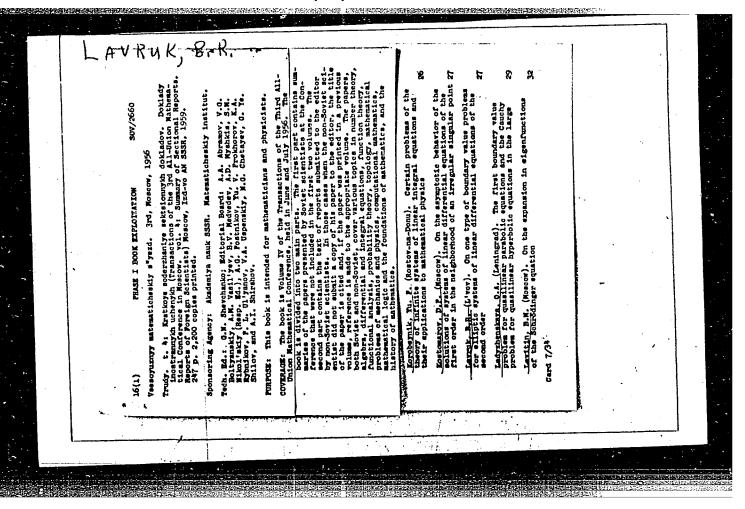
PRESENTED: April 15, 1958, by I.N. Vekua, Academician

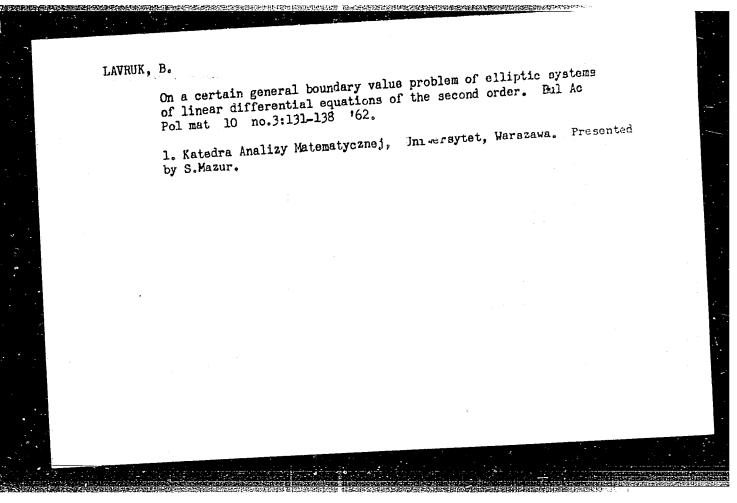
SUBMITTED: April 14, 1958

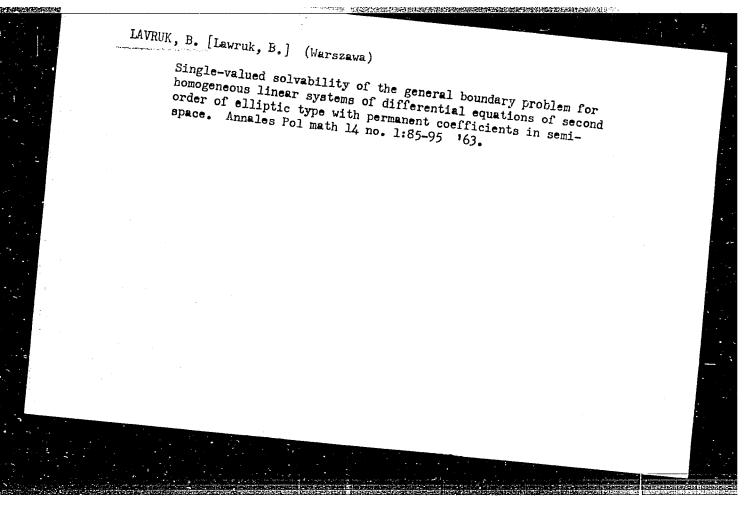
Card 2/2

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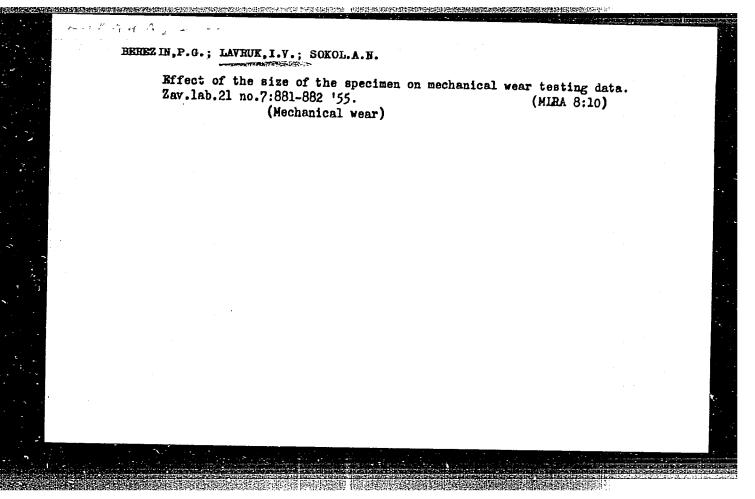






LAVRUK, I. V. - "Investigation of the Wear Resistance of Cast Iron Used for the Cylinder Liners of Truck-Tractor Engines." Min Higher Education USSR. Ukrainian Order of Labor Red Banner Agricultural Inst. Kiev, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

So; Knizhnava Letopis' No 3, 1956



LAVRUK, I-V

137-58-4-8262

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 276 (USSR)

AUTHORS: Preys, G.A., Lavruk, I.V.

TITLE: Dependence of Coefficient of Friction on Unit Pressure in the

Sliding Friction of Various Irons (Zavisimost' koeffitsiyenta treniya ot udel'nogo davleniya pri trenii skol'zheniya razlich-

nykh chugunov)

PERIODICAL: Tr. 1-y nauchno-tekhn. konferentsii. Kiyevsk. in-t grazhd.

vozdushn. flota, Moscow, 1956, pp 257-264

ABSTRACT: Determination of the dependence of the force of friction (F)

and the coefficient of F on the normal pressure in sliding F of various irons was made on a machine reproducing oxidizing wear (W), [fretting corrosion, Transl. Ed. Note] thermal W, and W with seizure. The standard disk was made from pearlitic iron with O₂ blast. The rate of slip was constant: 0.25 m/sec. The coefficients of F were determined in accordance with unit pressure. Analysis of the microstructure of the F surfaces and the data on magnitudes of W showed that the coefficient of F

the data on magnitudes of W showed that the coefficient of F diminishes in oxidizing (corrosive) W. Seizing phenomena are diminished under these conditions. The coefficients of F of the

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Dependence of Coefficient of (cont.)

irons investigated have been more precisely defined, and their values adduced. The coefficients of F determined by various investigators differ in magnitude, and it follows that it is necessary to employ a unified method in such determinations. As the normal pressure rises, the coefficient of F increases until steady S sets in, whereupon it becomes approximately constant.

A. K.

1. Iron--Friction--Pressure effects 2. Iron--Abrasion--Test results

3. Friction-Theory

Card 2/2

LAVRUK, I.V.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 276 (USSR)

Preys, G.A., Lavruk, I.V.

TITLE: Effect of Unit Pressure on the Wear of Various Irons (Vliyaniye

udel'nogo davleniya na iznos razlichnykh chugunov) PERIODICAL:

Tr. 1-y nauchno-tekhn. konferentsii. Kiyevsk. in-t grazhd. vozdushn. flota. Moscow, 1956, pp 273-282

ABSTRACT: One of the most destructive forms of wear is seizing, which is particularly pronounced at moderate speeds. Experiments

were conducted with a substantial number of irons (I). The characteristics and the microstructure of the I are described. The tests were run on a friction-testing machine on which various types of wear were reproduced. A description of the experiments and their methodology is given. A standard specimen was made of pearlitic gray I. The degree of wear (W) was determined by weighing specimens of 5 mm diameter, subjected to

friction without lubrication against the edge of a standard disk. The experiments were run at various unit pressures. The W of

crude and heat-treated I varied differently with change in unit Card 1/2 pressure. One of the basic methods employed to minimize W in

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Effect of Unit Pressure on the Wear of Various Irons

machine parts is the creation of conditions of friction in which a lubricant film is created between the rubbing metal parts. In cases of incomplete lubrication, the decisive role is that of the adsorption capacity of the oil film and the reaction between metals and lubricant. The employment of lubricant reduces the degree of induced W substantially.

- 1. Iron--Abrasion---Pressure effects 2. Iron--Abrasion--Test results
- 3. Friction testing machines -- Applications

Card 2/2

TARASOV, Viktor Savvich; LAVRUK, I.V., kand.tekhn.nauk, retsenzent;
OHISHCHERKO, N.P., inzh., red.

[Safety manual for motor-vehicle repair workers] Pamiatka po
tekhnike bezopannosti dlia slesarei po remontu avtomobilei.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.

48 p.

(Motor vehicles--Maintenance and repair)
(Industrial safety)

LAVRUK, Valeriy Ivanovich; MARCHUKOVA, M.G. [Marchukova, M.H.], red.;

[The first ones on the Caspian; sketches on shock workers of communist labor] Pervye na Kaspii; ocherki ob udarnikakh kommunisticheskogo truda. Moskva, Izd-vo "Morskoi transport," 1961. 73 p.

(MIRA 14:7)

(Caspian Sea—Petroleum workers) (Socialist competition)

8(0) SOV/112-59-5-8483

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, pp 10-11 (USSR)

AUTHOR: Ryabov, B. M., and Lavrukhin, A. M.

TITLE: Some Problems in Determining the DC Wet Flashover Voltage of Insulators

PERIODICAL: Tr. Mezhvuzovskoy nauchno-tekhn. konferentsii po dal'nim elektroperedacham. 1956, Sekts. 4, L., 1957, pp 147-160

ABSTRACT: The wet flashover voltage is the most important characteristic of outdoor insulators. Insofar as there is no experimental data on DC wet flashover voltages of 300- and 400-kv insulators, nor is there any operating experience, the need arises to determine the wet flashover voltages for single insulators, insulator strings, and stacks; the voltages should be measured on AC and DC under identical conditions. It is important to determine how wet flashover voltages depend on water-spraying conditions, on test outfit parameters, on voltage-application time, etc., in DC insulator tests. A 328,600/2x220-v, 100-kva testing transformer connected via an insulating

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SOV/112-59-5-8483

Some Problems in Determining the DC Wet Flashover Voltage of Insulators

transformer was used for AC tests. The test outfit impedance did not exceed 250 kohms in testing single insulators and 450 kohms in testing strings and stacks. In preliminary tests of ShT-35 insulators, with a protective resistor of R_z = 1,200 kohms, no sparkover was observed. At a voltage higher by 8-12% than the wet flashover voltage, with R_z = 1 to 10 kohms, a "partial" arc was observed between the edge of the lower insulator rib and the pin; the arc inception was accompanied by an abrupt increase of pre-puncture current. With R_z < 80 kohms, the "partial" arc turned into a sparkover covering the entire insulator surface. In all major experiments, the value R_z = 1-5 kohms was used. Tap water of 12,300-13,300 ohms.cm resistivity was used; an average rate of spraying of 5 mm/min with a deviation within 20% in some sections was used. The voltage was raised up to 50% of the wet flashover value in 3-5 seconds; the total time of voltage rise was 20-30 seconds. In the first voltage raise, which was made after 5-10 min of spraying the type P-7 string, the discharge did not take place even when the voltage exceeded by 25-35% the

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Some Problems in Determining the DC Wet Flashover Voltage of Insulators

wet flashover value. The string suffered a flashover after one or two of its units were short-circuited. In the tests, the P-7 string was pre-treated by flashovers with a part of its units short-circuited. After the short-circuiting jumpers were removed, 10 consecutive string flashovers were realized; the average wet-flashover value was computed from the last 6 flashovers. The wet flashover voltage grows in proportion to the number of units in the string; it is lower for the negative polarity of the conductor. For an IShD-35 insulator, the wet flashover voltage is somewhat higher for the negative polarity on the conductor. These differences are due to surface wetting conditions, prepuncture currents, and the development of the flashover proper. The time of discharge development, from the moment of voltage application to the moment of flashover, depends on the applied voltage; the higher the voltage, the shorter is the time; the time depends also on the number and type of units in the string. A voltage can be selected at which only partial arcs with pre-puncture currents of 20-25 ma will be observed; no sparkover will take place. With a lower rate

Card 3/4

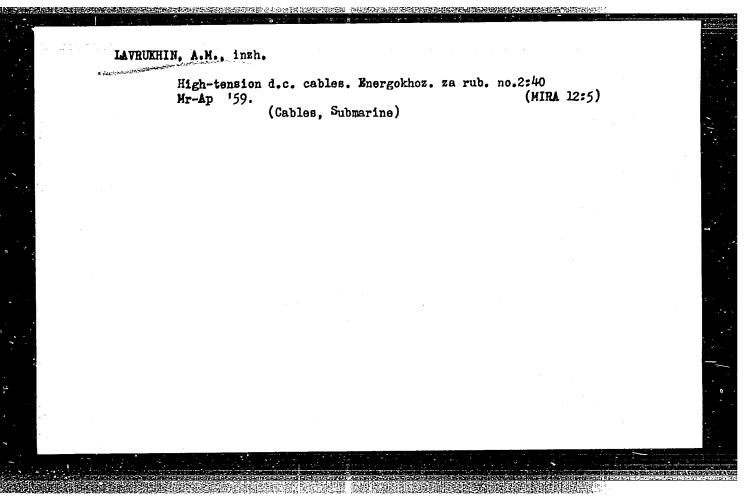
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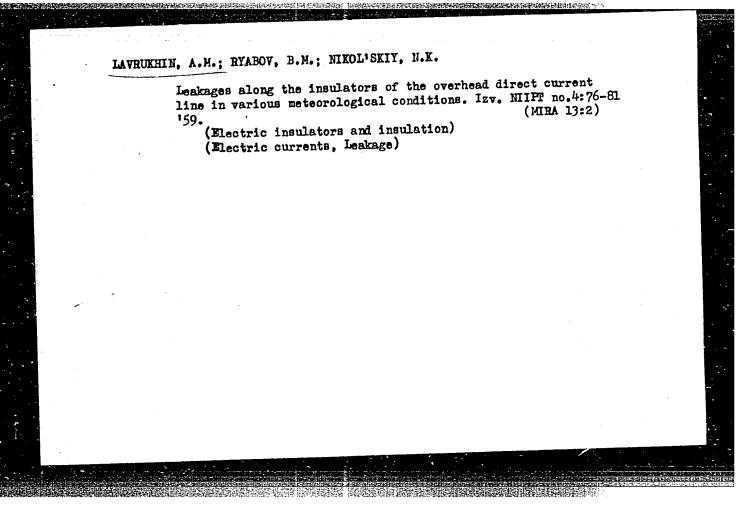
Some Problems in Determining the DC Wet Flashover Voltage of Insulators

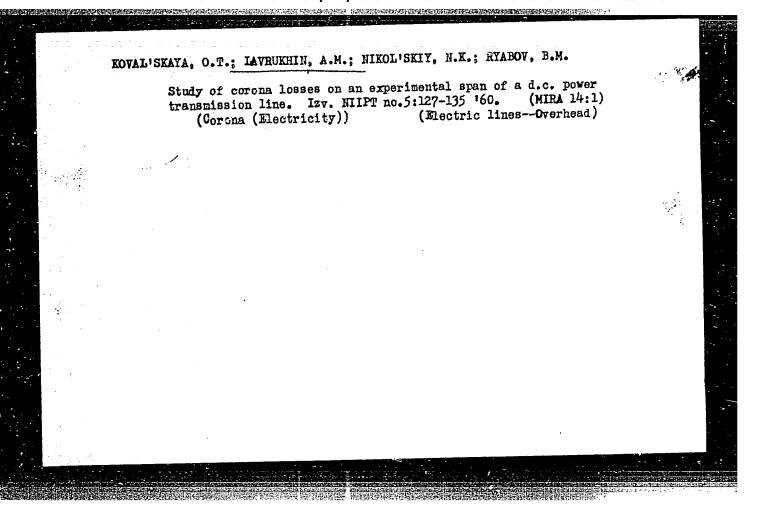
of spraying (2 mm/min), the flashover voltage is more dependent on the number of preliminary discharges. The experiments with a string that consisted of 3 P-7 units, with a negative conductor, and a spraying rate of 2 mm/min, have shown that the first flashover value is stable; it differs only slightly from the average wet-flashover value. A slight trend toward lower flashover voltages with increasing the number of discharges has been observed. Time interval between individual flashovers (1-10 min) has practically no effect on the wet flashover voltage. The wet flashover voltage of a string consisting of 3 P-7 units subjected to 2 mm/min spraying and negative-polarity 100-kv voltage with 3-4-min intervals between discharges has proved to be considerably lower than the wet flashover voltage obtained with a gradual raising of voltage and a spraying rate of 5 mm/min. A rapid raising of voltage results in a higher wet flashover value during the pre-puncture current development (?). Bibliography: 2 items. (Leningrad Polytechnic Institute imeni M. I. Kalinin)

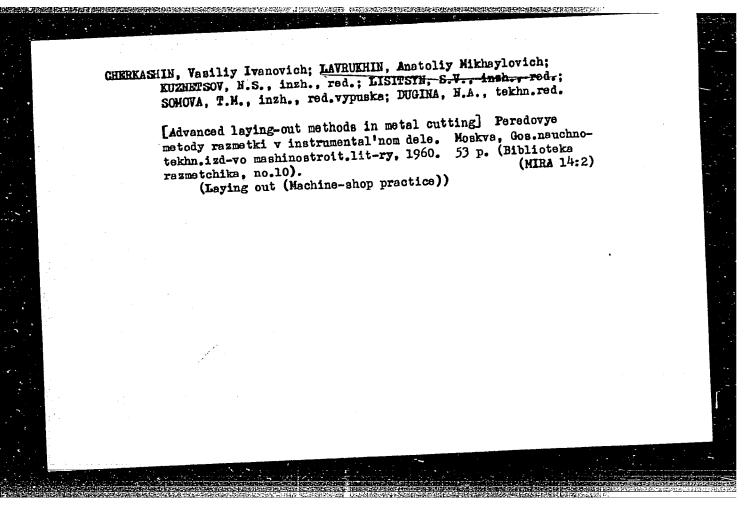
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Card 4/4









KOVAL'SKAYA, O.T.; LAVRUKHIN, A.M.; NIKOL'SKIY, N.K.; RYABOV, B.M.; TIKHODEYEV, N.N.

Comparison of corona losses in a.c. and d.c. electric power transmission lines with equal bundled conductors. Izv. NIIPT no.6:155-163 160. (MIRA 14:7)

(Electric power distribution) (Corona (Electricity))

DAVYDOVA, S.L.; PURINSON, Yu.A.; LAVRUKHIN. B.D.; PLATE, N.A.

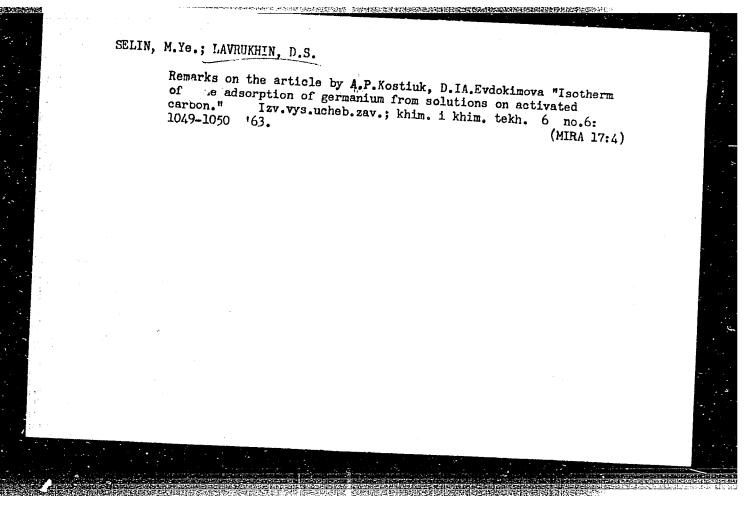
Synthesis of optically active unsaturated silicon hydrocarbon with an asymmetrical silicon atom. Izv. AN SSSR Ser. khim. no.2:387-389

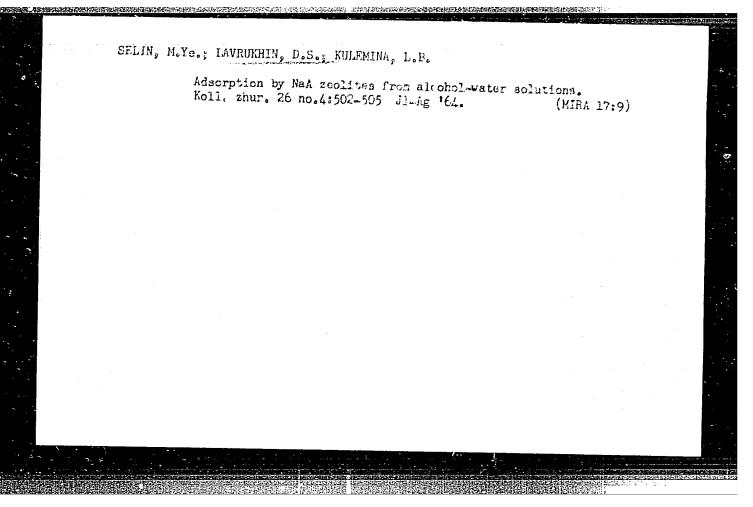
165.

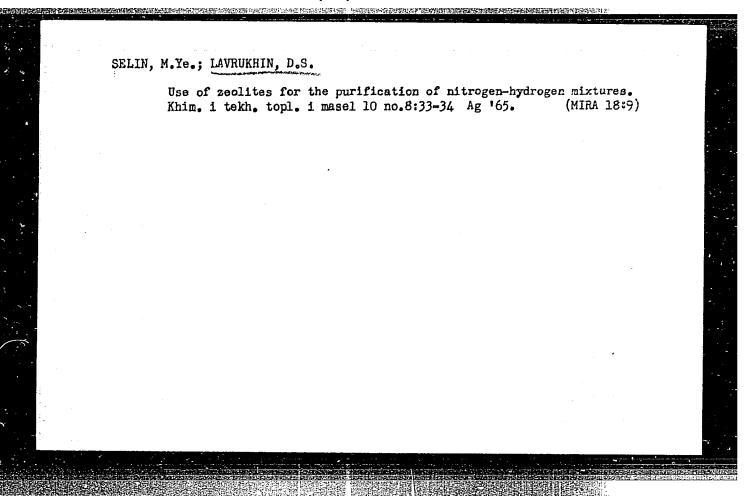
(MIRA 18:2)

1. Institut neftekhimicheskogo sinteza im. A.V. Topchiyeva AN SSSR.

L 35328-66 EWT(m)/EWP(j)
ACC NR. AP6026835 35328-66 SOURCE CODE: UR/0020/66/166/002/0349/0352 AUTHOR: Andrianov, K.A. (Academician); Fedin, E.I.; Lavygin, I.A.; Gorskaya, N.Y.; Lavrukhin, B.D. ORG: Institute of Organo elemental Compounds, AN SSSR (Institut elementoorganiche skikh soyedineniy AN SSSR) TITLE: Reaction of 8-hydroxyquinoline tribuloxytitanium with triethyl hydroxysilane SOURCE: AN SSSR. Doklady, v. 166, no. 2, 1966, 349-352 TOPIC TAGS: spectrometer, reaction mechanism, titanium compound, silane, esterification, chemical stability ABSTRAUT: A muclear magnetic resonance spectrometer was used for studying the mechanism of the reaction between 8-hydroxyquinoline tributoxytitanium and triethyl hydroxysilane. Spectra are given for various reagent concentrations. The first event in the reaction is apparently coordination of the oxygen in the hydroxyl radical of the triethyl hydroxysilane with a titanium atom which results in transesterification by the mechanism of bimolecular nucleophilic substitution. Substitution of a single butoxyl group probably results in such an unstable molecule that disproportionation takes place with the formation of stable compounds having tetracovalent and hexacoordinate saturated titanium atoms. The experimental procedure is described. Orig. art. has: 1 figure and 1 table. /JPRS: 36, 455/ SUB CODE: 07 / SUBM DATE: 21Jul65 / ORIG REF: 0 Card 1/1 _ UDC 2 546.824 1911







LAVRUKHIN, G.M.; GNATYSHAK, N.N.

Technological processes of the manufacture of ceramic-metal friction disks. Avt. prom. 31 no.6:41-43 Je '65.

(MIRA 18:10)

1. TSentral'nyy nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znamani avtomotornyy institut.

LAYRUKHIN, G.M.; VOROB'YEV, G.V.

Instrument for determining the fuel consumption of an automobile.

Avt.trakt.prom. no.10:30-32 0 '54. (MLRA 7:10)

1. Nauchnyy avtomotornyy institut.

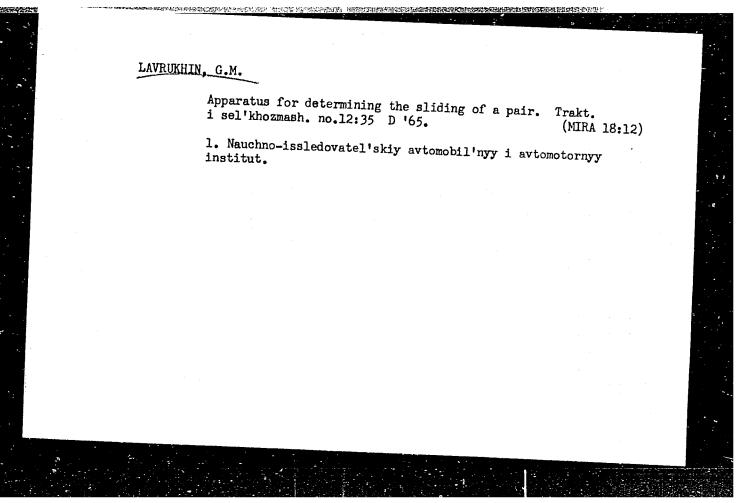
(Automobiles--Fuel consumption)

LAVEIKHIN G.M.; NARDOV, K.M.

Testing cermets. Avt. prom. no.1:14-16 Ja '58. (MIRA 11:2)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut (for Lavrukhin). 2. Yessoyuznyy nauchno-issledovatel'skiy institut aviatsionnykh materialov (for Nardov).

(Germets)



SOV/137-57-10-19062

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 91 (USSR)

AUTHOR: Lavrukhin, G.S.

TITLE: A Process for the Rolling of Periodically Recurrent Sections (O tekhnologii prokatki periodicheskikh profiley)

PERIODICAL: V sb.: Ratsionalizatsiya profiley prokata. Moscow, Profizdat, 1956, pp 325-333

ABSTRACT: As the result of experimental work in the periodically recurrentshape rolling (R) of small sections (0.2-10 kg), performed on an
experimental mill and an industrial rolling mill, a method is developed to make it possible to calculate the required grooving. Various
methods of cutting the patterns into the passes have been developed
and tested, as have designs for fixtures and mill equipment. Calculation of the savings possible when the drop forging of a single part
is replaced by R under industrial conditions shows that ~40% of the
metal is economized thereby and that the cost is reduced by 32%. An
investigation of a number of plants shows a sufficiently large number
of parts the manufacture of which may properly be converted to deformed R. An album of industrial flow sheets has been developed. S.G

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 70 (USSR) SOV/137-58-11-22338

AUTHORS: Lavrukhin, G.S., Durnev, V.D. And the second section of the section of

TITLE: Some Problems of Technology and Equipment in Periodic Long Rolling (Nekotoryye voprosy tekhnologii i oborudovaniya pri prodol noy periodicheskoy prokatke)

PERIODICAL: Tr. Mezhvuz. nauchno-tekhn. konferentsii na temu: "Sovrem. dostizh. prokatn. proiz-va". Leningrad, 1958, pp 103-108

ABSTRACT: A review is presented of materials of the Leningrad Polytechnic Institute im. Kalinin on matters of the theory and practice of periodic rolling (PR). These materials were accumulated in rolling shapes 0.1 to 50 kg in weight to undergo subsequent machining or drop forging into final shape. A method of analysis of pass grooving for PR of a particular strip is presented. The analysis is performed in the following sequence: a) Determining dimensions of initial billet; b) determining dimensions of flash; c) calculation of forward slip; and d) determination of pass dimensions. Analysis of the rolling shows that the calculation of forward slip should be on the basis of the effective radius of the pass, which corresponds to 50 to 70% of the depth of the groove.

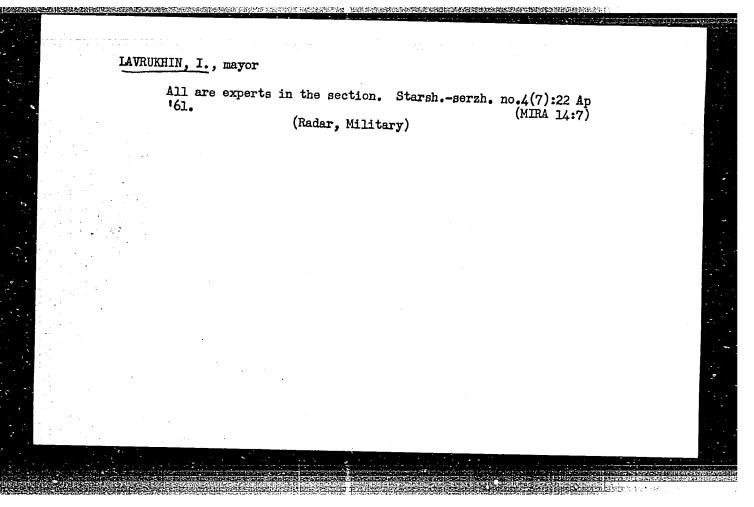
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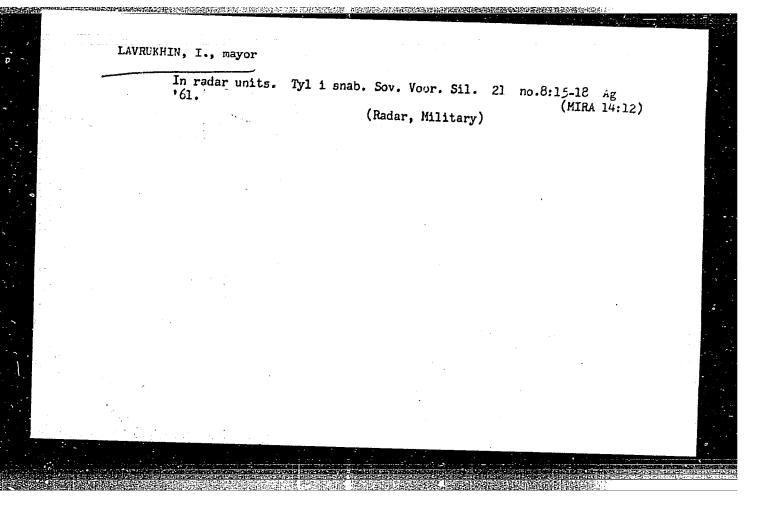
Some Problems of Technology and Equipment in Periodic Long Rolling

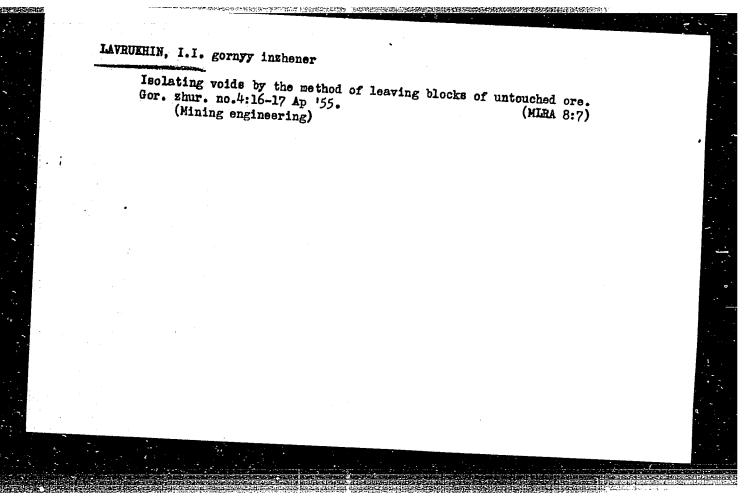
Data are presented on the technology of experimental PR, and design is presented of a special equipment for feeding strip to the roll with precise timing of delivery of the strip into the periodic groove so that the front end of the strip will match

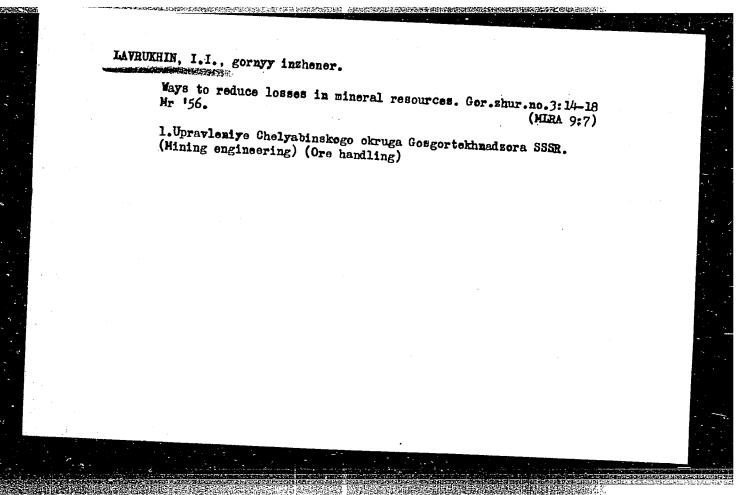
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LAVRUKHIN, I

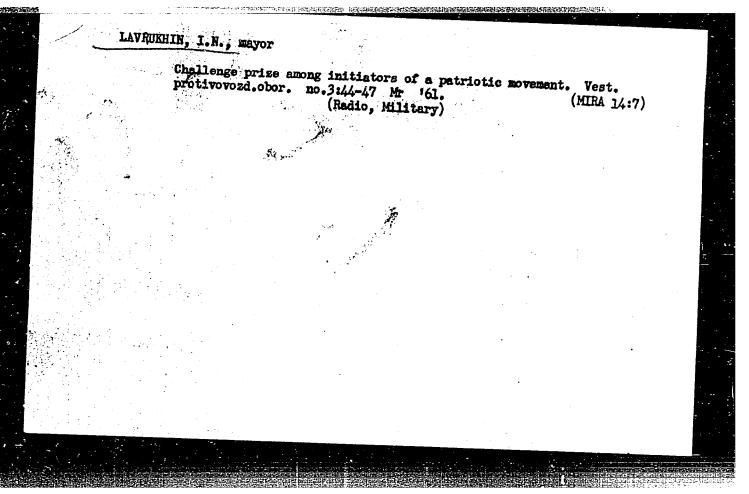
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LYUBOV' NARODOV MIRA K SOVETSKOMU SOYUZU (ZARUBEZHNYYE GOST) O STRANE
SOVETOV) MOSKVA, IZD-VO ZANANIYE, 1952.

37 P. (VSESOYUZNOYE OBSHCHESTVO PO RASPROSTRANENIYU POLITICHESKIKH I
NAUCHNYKH ZANITY. 1952, SERIYA L, NO 55)

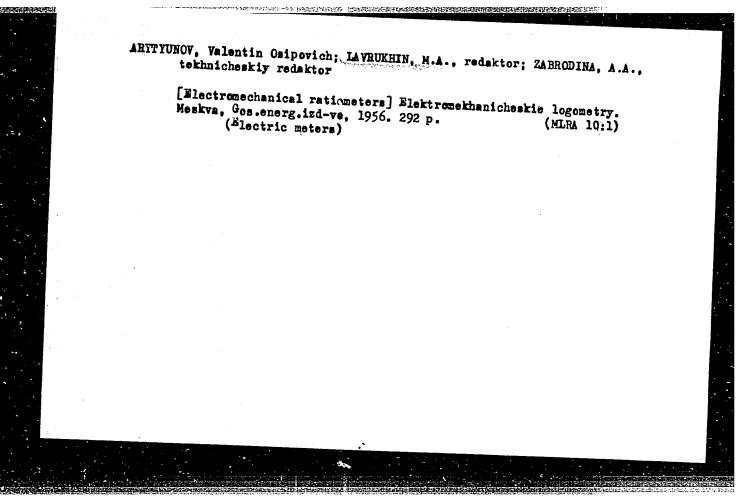
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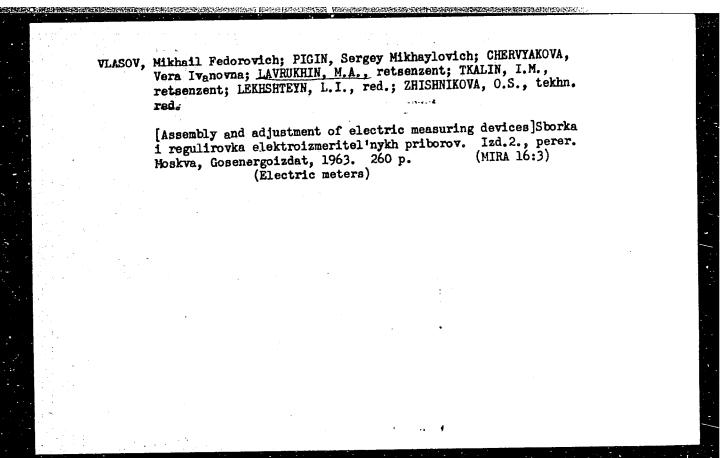


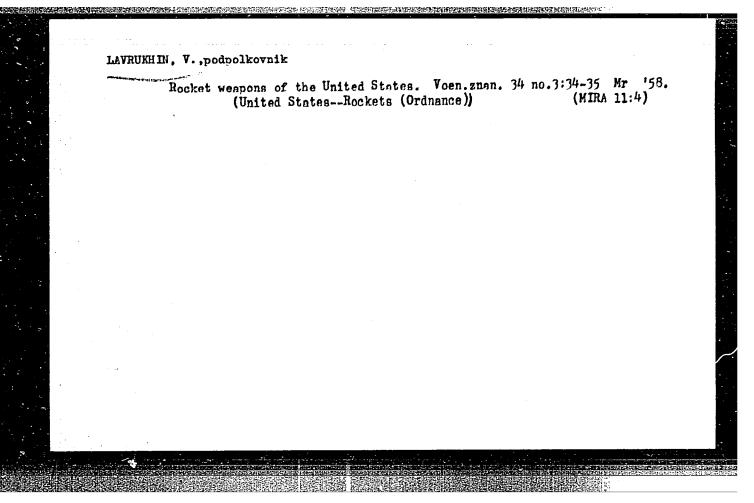
SHISHLYANNIKOV, Leonid Mikhaylovich, Zhallico Mikolay Kuzinich; KOZHOKIN, Moisey Iosifovich, zhurnalist; LAVRUKHIN, Ivan Nikitich, st. nauchn. sotr.; ITUNINA, R.G., red.

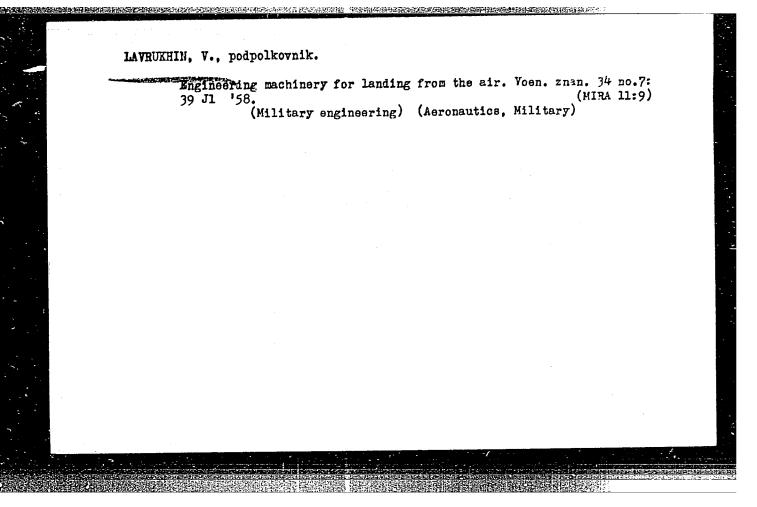
[Stubble and postharvest crops; practices on collective and state farms of the Talovaya Agricultural Administration in Verenezh Province and en collective and state farms in Belgored Province] Fozhnivnye i poukosnye posevy; opyt kolkhozov i sovkhozov Talovskogo proizvedstvennego upravlenia Verenezhskoi oblasti i kolkhozov i sovkhozov Belgoredskoi oblasti. Verenezh, Tsentra-Chernezemnee knizhmee izd-vo, 1964. 33 p. (MIRA 18:1)

1. Belgorodskaya oblastnaya opytnaya sel'skokhozyaystvennaya stantsiya (for Lavrukhin).







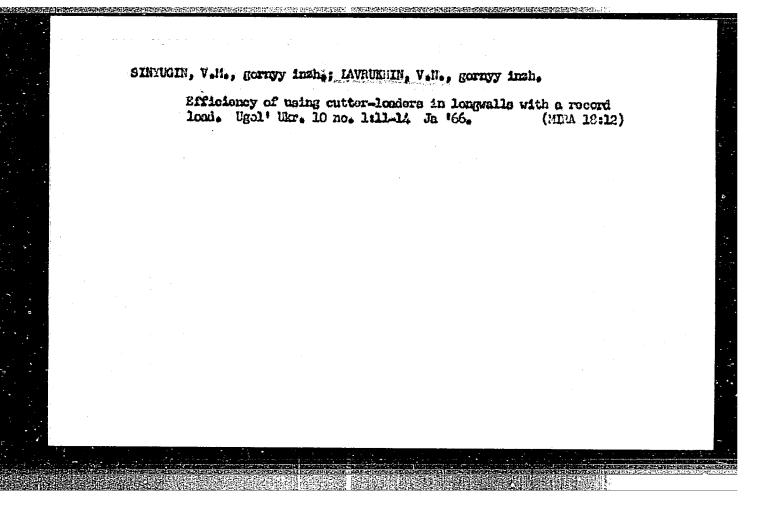


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LAWRUKHIN, V.I., inzh.; NOVIKOV, V.I., inzh.; SIROTKIN, P.S., inzh.

Locating of the damage in the sheating of electric cables pessing through severs. Vest. sviazi 21 no.7:p.3 of cover '61. (MIRA 16:7)

1. Proizvodstvennaya laboratoriya Moskovskoy gorodskoy telefonnoy seti. (Electric cables—Testing)



TYULENEY, I.V., general armii; YAKOVLEY, N.P., polkovnik; SOKOLOV, N.A., polkovnik; BESHKAREV, N.A., podpolkovnik; LAVRUKHIN, V.S., podpolkovnik; FEDYAYEV, P.V., podpolkovnik; GULEVICH, I.D., podpolkovnik, red.; STREL'HIKOVA, M.A., tekhn.red.

现是最快的支持。4000年的第三次的影响的,这个15年的第三次,15年2月14年的第三次的影响的对象的重要的最高的重要的影响的第三次的影响的影响的影响的影响的影响

[Practical manual of preconscription training] Metodicheskoe posobie po doprizywnoi podgotovke. Moskva, Voen.izd-vo M-va obor. SSSR, 1959. 188 p. (MIRA 12:5)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony.
(Military education)

